

# B&D Black & Decker®

## OWNER'S MANUAL

### SAFETY RULES FOR POWER TOOLS

1. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
2. AVOID DANGEROUS ENVIRONMENT. Don't expose power tools to rain. Don't use power tool in damp or wet locations. And keep work area well lit.
3. KEEP CHILDREN AWAY. All visitors should be kept safe distance from work area.
4. STORE IDLE TOOLS. When not in use, tools should be stored in dry, high or locked-up place—out of reach of children.
5. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was designed.
6. USE RIGHT TOOL. Don't force small tool or attachment to do the job of a heavy duty tool.
7. WEAR PROPER APPAREL. No loose clothing or jewelry to get caught in moving parts. Rubber gloves and footwear are recommended when working outdoors.
8. USE SAFETY GLASSES with most tools. Also face or dust mask if cutting operation is dusty.
9. DON'T ABUSE CORD. Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil and sharp edges.
10. SECURE WORK. Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
11. DON'T OVERREACH. Keep proper footing and balance at all times.
12. MAINTAIN TOOLS WITH CARE. Keep tools sharp at all times, and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
13. DISCONNECT TOOLS. When not in use, before servicing; when changing accessories such as blades, bits, cutters, etc.
14. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
15. AVOID ACCIDENTAL STARTING. Don't carry plugged-in tool with finger on switch. Be sure switch is off when plugging in.
16. OUTDOOR USE EXTENSION CORDS—When tool is used outdoors, use only extension cords suitable for use outdoors and so marked.
17. DO NOT OPERATE portable electric tools in gaseous or explosive atmospheres. Motors in these tools normally spark, and the sparks might ignite fumes.

## HEAVY - DUTY ELECTRIC POLISHERS

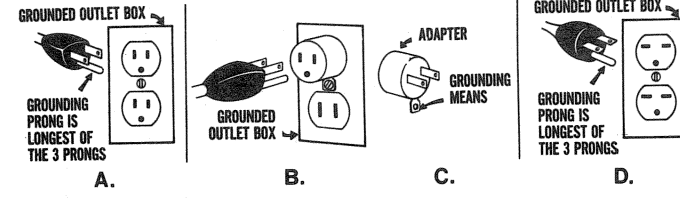
CAT. NOS. 6128-09, 6130-09, 6132-09, 4100-09

### ADDITIONAL SAFETY RULES FOR POLISHERS

1. Before turning the switch to the "ON" position, be sure the pad is free to revolve.
2. Care must be exercised to prevent accidental power cord-pad contact. Remember that a pad with compound or wax tends to adhere to objects it touches, thus making the pad dangerous when rotating near the power cord. If the cord should be picked up in the pad, immediately shut the tool off and unplug the power cord before attempting to straighten it out. Be sure to examine the power cord for damage such as cuts, abrasions, etc. resulting from the pad contact. If there is damage to the power cord, have it properly repaired at a B&D Service Center or other qualified electrical repair company before using the tool again.
3. Never use a damaged or torn polishing pad or bonnet.
4. Wear proper clothing, short sleeves, nothing loose or bulky such as shop coats, etc.
5. Don't overreach. Use both handles whenever possible.
6. Be extremely careful when polishing around sharp or protruding objects on the car body.
7. Always wear eye protection.
8. Clean your tool out periodically following the procedure in the maintenance section.

### GROUNDING

This tool should be grounded while in use to protect the operator from electric shock. The tool is equipped with an approved three-conductor cord and three-prong grounding type plug to fit the proper grounding type receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. Never connect the green (or green and yellow) wire to a live terminal. If your unit is for use on less than 150 volts, it has a plug like that shown in Figure A. If it is for use on 150 to 250 volts, it has a plug like that shown in Figure D. An adapter, Figures B and C, is available for connecting Figure A plugs to two-prong receptacles. The green-colored rigid ear, lug, etc., must be connected to a permanent ground such as a properly grounded outlet box. No adapter is available for a plug as shown in Figure D. Adapter shown in Figures B & C is not for use in Canada



### MOTOR

Your Black & Decker tool is powered by a B&D-built motor. Be sure your power supply agrees with voltage marked on nameplate. **Volts 50/60 Hz** means **Alternating Current only**. **Volts DC-60 Hz** means it will also operate on **Direct Current**. Voltage variation of more than 10% will cause loss of power and over-heating.

### MOTOR BRUSHES

Inspect carbon brushes frequently. Replace when brushes are worn down to the identifying letter or groove or when spring exerts insufficient pressure to hold brush against commutator. Keep brushes clean and sliding freely in guides.

To remove brushes:

1. Disconnect tool from power supply.
2. Remove brush cap and brass insert (Figure 5).
3. Pull brush assembly out of brass insert.

### CAUTION

To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustment should be performed by BLACK & DECKER Service Centers or other qualified service organizations, always using BLACK & DECKER replacement parts.

### CONTROLS

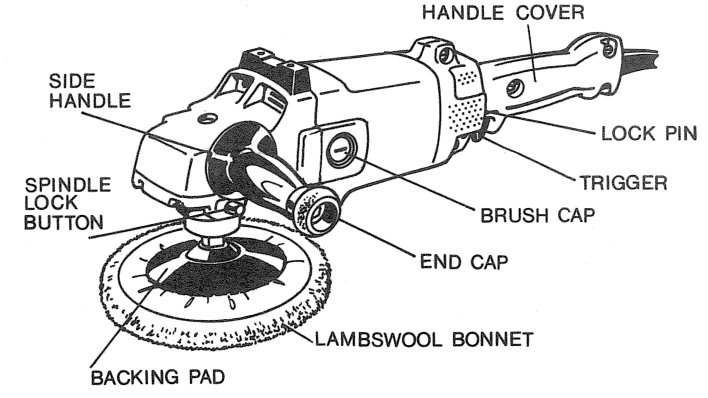


FIGURE 1

**Trigger:** To start tool, depress trigger; to stop tool, release trigger. To lock trigger in "ON" position for continuous operation, depress trigger, push in locking pin and then release trigger. To release locking mechanism, depress and release trigger. **CAUTION:** Grasp tool firmly with both hands before starting tool.

**Side Handle** may be attached to either side of tool for left or right handed operation. To attach Handle, turn **End Cap** to engage the bolt in the threaded hole on either side of the tool. Hold **Side Handle** so that its squared end will properly engage the socket on the side of the tool as the bolt is tightened.

**Spindle Lock Button** is used to lock the spindle when changing accessories. To engage the **Lock Button**: disconnect the tool from the power supply, depress the button, and turn the pad and spindle in a direction **opposite** to its ordinary direction of rotation until **Lock Button** engages spindle.

**NOTE:** Do not depress spindle lock button while unit is running.

### COMMERCIAL / INDUSTRIAL USE WARRANTY

Black & Decker warrants this product for one year from date of purchase. We will repair without charge, any defects due to faulty material or workmanship. Please return the complete unit, transportation prepaid, to any Black & Decker Service Center or Authorized Service Station listed under "Tools Electric" in the yellow pages. This warranty does not apply to accessories or damage caused where repairs have been made or attempted by others.

### IMPORTANT!

To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustment should be performed by BLACK & DECKER Service Centers or other qualified service organizations, always using BLACK & DECKER replacement parts.

### FACTORY SALES & SERVICE CENTERS

Area Code	Area Telephone No.
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	... San Francisco 94111, 14920 Victory Blvd. 415 871-7278
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	... Rockville (Belt) 21084, 201 Elm Pike 301 826-2510
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	... Memphis 38116, 988 East Brooke Rd. 901 392-3444
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	... Spokane 99207, 3550 North Merit Street 509 489-9164
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	... Milwaukee 10903, W. Lincoln Ave. 414 543-9590

## THE BLACK & DECKER MFG. CO., TOWSON, MD. 21204, U.S.A.

FORM NO. 722054-02

(Nov.76-PS) Printed in U.S.A.

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## ATTACHING PADS

**BE SURE THE TOOL IS UNPLUGGED!** Push the hub of the clamp washer through the hole in the center of the Lambswool Pad as far as it will go. Engage the hexagonal Clamp Washer hub with the hexagonal hole in the Backing Pad (Fig. 2). Holding the three pieces firmly together, place the assembly on the tool spindle. Hold the spindle lock button while turning the pads clockwise to thread them completely on the spindle (Fig. 3).

To remove pads, turn them by hand in the opposite direction from normal rotation to allow lock button to engage spindle, then unscrew pads in normal direction for right hand thread.

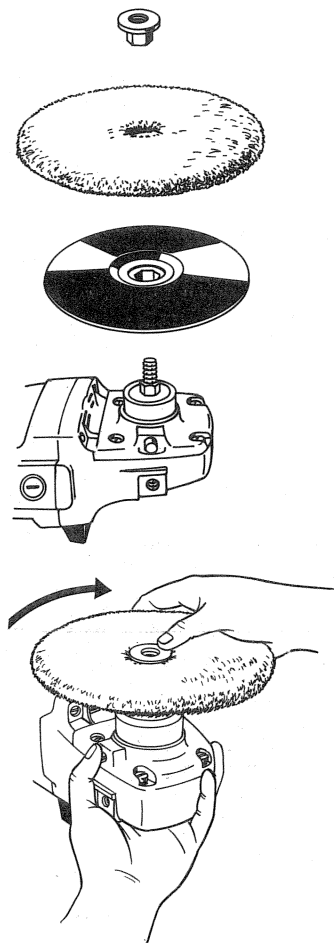


FIG. 2

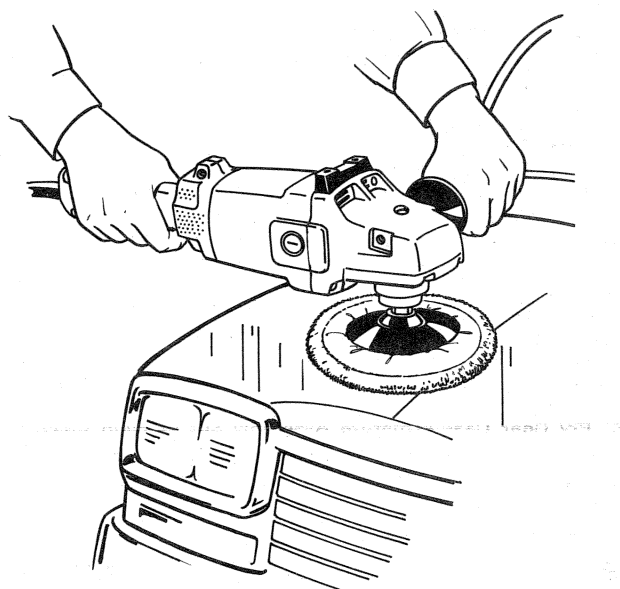
FIG. 3

## GENERAL OPERATION—continued

Without turning tool "ON", grasp the handles of the tool and pick it up. Keep the tool away from your body and turn the switch "ON". Make sure you have a firm grip on the handles and operate the tool freely without forced effort or unnecessary pressure. The side handle can be easily changed to either side of the tool for left-hand or right-hand operation.

## POLISHING

Spread a light coat of a good grade of polish, with a soft clean cloth or brush, over a small area and apply the Polisher before the polish dries. When starting to polish, it is all right to have the Polishing Pad resting squarely on the surface, but as the scum and film begin to work loose, start tilting the tool so that the dry outer section of the Polishing Pad comes in contact with the surface. If hazy spots still remain, apply a little more polish and work out these spots.



Start polishing with the roof, move to the hood, the fenders, the doors, etc. In this way, the slight dust that may be thrown off into the air by the revolving pad will not fall on completed sections, and the power cord will not be dragged over completed portions. When the car has been completely polished, an additional high lustre may be obtained if a few drops of water are sprinkled on the surface and gone over quickly with the Polisher or a clean dry cloth. (If a cloth is used, it is not necessary to rub—merely wipe.)

A Polishing Pad will become discolored with use because it has picked up "dead" pigment from the car surface. Excess dirt on the pad can often be removed by lightly touching the pad to an edge of the car bumper while pad is rotating. (The edge of a work bench or garage door will serve the same purpose.) When the pad becomes very dirty, remove it from the tool and dip the wool part only (do not get the back of the pad wet) into a pail of clean water, scuffing the pad with your hand. Put pad back on polisher and spin it dry.

## CLEANING COMPOUNDS

The general procedure for using cleaning compound is similar to that used for polishing. Spread a light coat of a good grade of compound on the surface with a clean cloth or brush and apply the Polisher. Best results are obtained when the unit is operated with the pad at a slight angle to the work surface. Care should be taken in the amount and coarseness (light, medium or heavy) of the compound used and the speed and pressure exerted on the work surface. (See General Operating Instructions.)

## GENERAL OPERATION

These instructions and suggestions are intended to familiarize new operators in overall general operation of POWER POLISHING. You will develop your own techniques which will make the job easier and faster as you learn power polishing.

As mentioned previously you should use utmost care when power polishing around or over sharp objects and contours of the car body. It is very important to use the correct pressure while polishing various sections of an automobile body. For example, light pressure should be applied when polishing over sharp raised edges of body panels, or over edges of the rain gutter along the top.

Since everyone does not use the same type of Power Polish, we recommend you clean and polish a test section on a flat area of the car **FIRST**. From this test section, you can judge the strength or cleaning action of your Power Polish.

Remember, all Power Polish is not the same. Different brands will react differently on various painted surfaces. Also, you are now using a POWER POLISHER with Power Polish. This is entirely different from any hand application which you may have done before. Wash the car before power polishing it. Washing will remove loose dirt, scum, road salt, etc. which could act as an abrasive and damage the paint. Loose dirt, etc. will also clog the polishing pad and you will have to clean it more often.

## MAINTENANCE

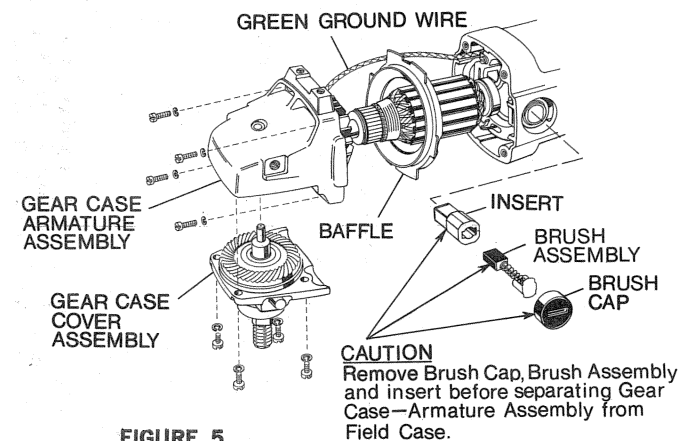


FIGURE 5

To assure product safety and reliability, repairs, maintenance and adjustment should be performed by Black & Decker Service Centers or other qualified service organizations, always using Black & Decker replacement parts.

### Cleaning:

The air intake openings in the handle should be kept free and clear of dust and dirt by blowing through them occasionally with an air hose. If more thorough cleaning within the motor housing is required, follow the disassembly procedure outlined below.

**CAUTION:** Never use solvents or other harsh chemicals for cleaning the non-metallic parts of the tool. Use clean, dry rag only.

### Disassembly of Unit for Cleaning

1. Disconnect tool from power supply.
2. Remove handle cover.
3. Remove Brush Caps, Brush Assemblies and Brass Inserts.
4. Remove the (4) screws holding the Gear Case-Armature Assembly to the Field Case.
5. Pry Gear Case-Armature Assembly out of Field Case.
6. Remove Gear Case-Armature Assembly from Field Case avoiding force when pulling green Ground Wire through Field Case. Guide green Ground Wire on handle end of Field Case as required.

### Assembly Procedure

1. Ground Wire must be securely connected to the Gear Case-Armature Assembly.
2. Position Baffle in the Field Case.
3. Pull green Ground Wire on handle end of Field Case while Gear Case-Armature Assembly is inserted into Field Case. No slack wire may remain in the Gear Case or the Field Case.
4. Tuck excess Ground Wire into space between Field Case and Handle.
5. Replace Gear Case-Armature Assembly mounting screws (4).
6. Replace Handle Cover.
7. Replace Brass Inserts, Brush Assembly and Brush Caps.

### Brushes:

Inspect carbon brushes often. Replace when brushes are worn down to the identifying groove or when spring exerts insufficient pressure to hold brush against commutator. Keep brushes clean and sliding free in guides.

### To remove brushes:

1. Disconnect tool from power supply.
2. Remove Brush Cap and brass insert.
3. Pry sheet metal cap on Brush Assembly out of brass insert.

### Lubrication:

Except for the needle roller bearings used at the upper end of the spindle, closed-type, grease-sealed ball bearings are used throughout. These bearings have sufficient lubrication packed in them at the factory to last the life of the bearing. The needle bearings mentioned above receive their lubrication from the grease in the gear case. Gears should be lubricated every 60 to 90 days in accordance with the following procedure:

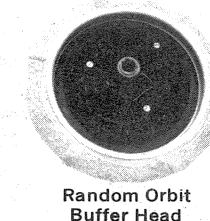
1. Remove the (4) Screws and pry the Gear Case Cover Assembly from the Gear Case-Armature Assembly.
2. Wipe out old grease from Gear Case and Cover.
3. Place 3 oz. Black & Decker lubricant (Cat. 60541) on top of gear.
4. Re-assemble Gear Case Cover Assembly to Gear Case-Armature Assembly carefully so that Gear meshes properly with Pinion.

## ACCESSORIES:

**CAUTION:** Accessories shown on this page are recommended for use with your Polisher. The use of any other accessory might be hazardous.

### Random Orbit Buffer Head

#63313 Random Orbit Head assembly is available as a separate attachment, complete with one bonnet, as an accessory to fit any standard automotive polisher having a 1/8"-11 thread. Use it to convert your present polisher to a Random Orbit Buffer. **CAUTION:** Do not use this accessory on tools with speeds that will exceed 3,000 RPM.



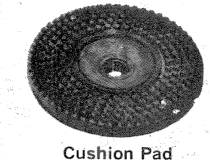
Random Orbit Buffer Head

### Rubber Backing Pads

#50934 7" Quick-Change Flexible Backing Pad. Includes #50933 Clamp Washer; attaches same as #51824 Pad below.  
#51824 7" Quick-Change Super Flexible Rubber Backing Pad with #50933 Clamp Washer. Washer is threaded inside; fits through hub of pad, and threads onto spindle of polisher.



Rubber Backing Pad



Cushion Pad

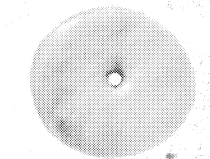
#36239 7" Cushion Pad with #45925 Clamp Washer. A superior cushioning pad for use with Vitri-Buff Bonnets. Threads directly on polisher spindle.

### Lambswool Bonnets and Pads

Made of high quality lambswool skins. Economically priced.

#13086 7" Lambswool Polishing Pad. Use with #51824 Quick-Change Super Flexible Rubber Backing Pad.

#13087 7" Lambswool Polishing Bonnet with hood and drawstring. Use with #51824 Quick-Change Super Flexible Rubber Backing Pad.  
#22176 9" Lambswool Polishing Bonnet with hood and drawstring. Use with #36239 Cushion Pad.



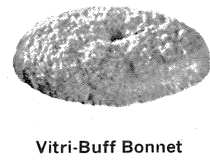
Lambswool Bonnet

### Vitri-Buff Bonnets and Pads

Gives a superior shine on all car finishes. Each tuft is twisted and locked to backing pad by patented construction method. Very resilient, stronger pile, more body. Outlasts other buffs many times over.

#45434 7 1/2" Vitri-Buff Pad.  
#37796 7 1/2" Vitri-Buff Bonnet with hood and drawstring. Use with #51824 Quick-Change, Super Flexible Rubber Backing Pad.

#37797 9" Vitri-Buff Bonnet with hood and drawstring. Use with #36239 Cushion Pad.

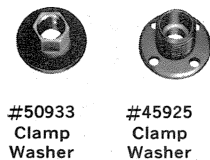


Vitri-Buff Bonnet

### Clamp Washers

#50933 Replacement Clamp Washer. Inside-threaded; fits through hub of #51824 and #50934 Quick-Change Flexible Backing Pads and threads onto spindle.

#45925 Replacement Clamp Washer. Outside-threaded. Use with #36239 Cushion Pad.



#50933  
Clamp  
Washer

#45925  
Clamp  
Washer

### Power Polish #48428

Formulated for one-operation cleaning and polishing with power polishers. Leaves clean lustrous, sealed surface that stays hard and bright for months. Won't remove or harm live paint. 1/2 gallon.



Power Polish